91-03558/

Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 569

RAYMOND TOWNSHIP

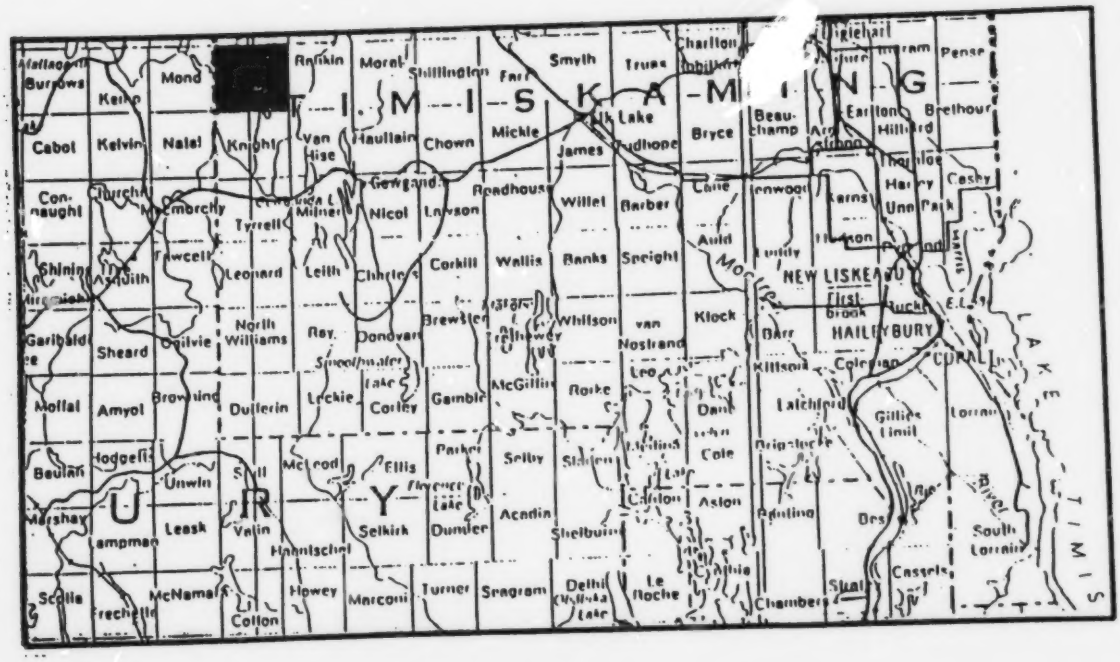
LARDER LAKE MINING DIVISION

NTS No. 41P/10, 11

Compiled by the staff of

the Resident Geologist's Office

COBALT



LOCATION MAP

CANADA ONTARIO Mineral Development Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

Mining Claim Map Number M.244

This project was funded under the Canada Ontario Mineral Development Agreement (COMDA), 1985-1990.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1991. Raymond Township, Geological Data Inventory Folio 569 ; compiled by the staff of the Resident Geologist's Office, Cobalt.

Original Compilation by: Anderson, Patricia, January 1990.

Date	Page(s) Revised	Revised by

Date	Page(s) Revised	Revised by

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TABLE OF CONTENTS

Data Sources Checklist 1

Mineral Commodities Reference List 2

Mineral Occurrences ..... 3 - 1,2

Type of Work ..... 4 - 1,2

Drillhole Summary ..... 5 - 1,2

Airborne Geophysical Survey Data ..... 6 - 1,2

Geochemical Survey Data ..... 7 - 1,2

Geochronology Data ..... 8 - 1

Air Photographs, Mosaics, Imagery ..... 9 - 1

Topographic Maps ..... 10 - 1

Newspaper Clippings File ..... 11 - 1

OGS/ODM General Index Search ..... 12 - 1,2

Selected References ..... 13 - 1,2. . .6

Notes ..... 14 - 1

Addenda ..... 15 - 1

ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C. (I.O.)	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report
Nip. Dist.	Nipissing District
Sud. Dist.	Sudbury District
Tim. Dist.	Timiskaming District
N.O.	Report of the Survey and Exploration of Northern Ontario, 1900
Ont.	Ontario
AF	Assessment Files

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	OGS/ODM General Index	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	N.A.	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	No	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (OGS)	No	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	ODM/OGS Miscellaneous Papers	Yes	D.P.A.
16	ODM Geological Circulars	No	D.P.A.
17	OGS Study Series	Yes	D.P.A.
18	ODM Preliminary Reports	No	D.P.A.
19	ODM Bulletins	Yes	D.P.A.
20	ODM/OGS Open File Reports	Yes	D.P.A.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
22	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
23	OGS Mineral Potential Maps	No	D.P.A.
24	Drill Core Library Catalogue	No	D.P.A.
25	Theses on File, Cobalt	No	D.P.A.
26	Aerial Photographs on File, Cobalt	Yes	D.P.A.
*			

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite	gl ..... Gravel	ra ..... Radioactive minerals	ADDITIONS
ank ..... Ankerite	gyp ..... Gypsum	RE ..... Rare Earths	
ap ..... Apatite	hem ..... Hematite	sd ..... Sand	
arg ..... Argentite	Fe ..... Iron	sgl ..... Sand and gravel	
As ..... Arsenic	IF ..... Iron Formation	ss ..... Sandstone	
asp ..... Arsenopyrite	jas ..... Jasper	scap ..... Scapolite	
asb ..... Asbestos	ky ..... Kyanite	shee ..... Scheelite	
ba ..... Barite	Pb ..... Lead	serp ..... Serpentine	
be ..... Beryl	lim ..... Limonite	sh ..... Shale	
Bi ..... Bismuth	Li ..... Lithium	sid ..... Siderite	
bn ..... Bornite	mgst ..... Magnesite	si ..... Silica	
Cd ..... Cadmium	mag ..... Magnetite	Ag ..... Silver	
calc ..... Calcite	mc ..... Malachite	sl ..... Slate	
carb ..... Carbonate	Mn ..... Manganese	sm ..... Smaltite	
cc ..... Chalcocite	mb ..... Marble	sod ..... Sodalite	
cp ..... Chalcopyrite	mar ..... Marcasite	spec ..... Specularite	
ch ..... Chert	ma ..... Marl	sp ..... Sphalerite	
clay ..... Clay	mi ..... Mica	spd ..... Spodumene	
Co ..... Cobalt	mo ..... Molybdenite	s ..... Sulphides	
cob ..... Cobaltite	Mo ..... Molybdenum	talc ..... Talc	
Cu ..... Copper	mon ..... Monazite	Te ..... Tellurium	
cor ..... Corundum	ne .... Nephelite (nepheline)	th ..... Thorite	
dol ..... Dolomite	Ni ..... Nickel	Th ..... Thorium	
ep ..... Epidote	Nb ..... Niobium	ti ..... Titanite	
fel ..... Feldspar	Pd ..... Palladium	Ti ..... Titanium	
fl ..... Fluorite (flurospar)	pent ..... Pentlandite	tour ..... Tourmaline	
fu. ..... Fuchsite	Pt ..... Platinum	W ..... Tungsten	
gn. ..... Galena	py ..... Pyrite	uran ..... Uraninite	
gt. ..... Garnet	pyl ..... Pyrochlore	U ..... Uranium	*
goe ..... Goethite	po ..... Pyrrhotite	verm ..... Vermiculite	
Au ..... Gold	q ..... Quartz	Zn ..... Zinc	
gf ..... Graphite	qcv .. Quartz carbonate vein	zr ..... Zircon	

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Ref. Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks

MINERAL OCCURRENCES

Ref. Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done; e.g., 68 for 1968																
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	OTHER DATA IN THIS FILE, OR FOOTNOTES
1	Norcen Energy Resources Ltd., Mond, Kemp, Midlothian, Raymond, Halliday and Sothman Tps.							81	81	81								
2	Amax Potash Ltd., Raymond, Mond, Halliday and Midlothian Tps. AFRO #2.1436	71	72		72			73 72				71	74					
3	Timiskaming Nickel Ltd., Knight, Tyrrell, Natal, Raymond, Macmurchy and Kelvin Tps. AFRO #63.2397							69	68	68								

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done; e.g., 68 for 1968															OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Amax Potash Ltd.	Tx-92-72	1972	0	-45	14	400	po,py,gf, cp,gn	Cu,Zn,Ag

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

● —— indicates core stored at Drill Core Library

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map(s)	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	By: Scintrex Ltd. For: Norcen Energy Resources Ltd. Year: 1981	Helicopter magnetic (Scintrex Map-4) and electromagnetic (Scintrex HEM-802)	30m	N/S	125 and 250m
3	By: Lockwood Survey Corp. Ltd. For: Timiskaming Nickel Ltd. Year: 1968	Electromagnetic and magnetic	200'	E/W	330'

Number on File Index Map(s)	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direction	Flight Line Spacing
	— by — for — year	Type of Survey			

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	Top soil and sub soil samples	Zn,Cu,Pb,Ni,Ag by hot $HClO_4$-HNO_3	By: Amax Laboratory	Raymond Tp. AF Amax Potash Ltd.

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA (see Exploration Data Map)		By	Reference
	Type of Survey	Analysis For		

GEOCHRONOLOGY DATA – AGE DATING

Site No. on Map	Method	Material	Reference	Result

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologists Office:

(a) Aerial Photographs: 1" = 1/4 mile, black and white, 1970, 1980

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:20 000	1982	OBM 20 17 4900 52800 20 17 5000 52600 20 17 4900 52900 20 17 5000 52900	MNR
1:50 000	1976	Matachewan, Ontario, NTS 41P/15	Surveys and Mapping Branch, EMR
1:50 000	1976	Sinclair Lake, Ontario, NTS 41P/14	Surveys and Mapping Branch, EMR

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

AMAX POTASH LTD.
BANNER LAKE
BAYSON LAKE
DROP LAKE
DUNCAN LAKE
EMBER LAKE
LEHMANN LAKE
LLOYD LAKE
NORCEN ENERGY RESOURCES LTD.
OTTO LAKE
PERTH LAKE
RAYMOND TOWNSHIP
TIMISKAMING NICKEL LTD.

Index Volume	Listing:	Report Volume	Part	Page
1	Duncan Lake, headwaters of Montreal river			
	Character of river near	NO		110,110
	Pine	NO		91
	Raymond Tp., Tim.			
	Silver claims staked	19	1	52
3	Duncan Lake, Tyrrell-Knight area			
	Access	41	2	27
	Gold claims near	41	2	49-52
	See also map 41b with	41	2	
	Rocks	41	2	45-47
	Topography	41	2	30,31
	Raymond Tp., Tim.			
	Glacial deposits	41	2	31
	Rocks. See map 41b with	41	2	
4	Lloyd Lake, Midlothian and Raymond tps.			
	Asbestos	56	5	11,21
	Fault	56	5	15,16
	Photo	56	5	3
	Rocks	56	5	10,11

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page
5	No Listings Found			
6	No Listings Found			
7	No Listings Found			
8	Lloyd Lake			
	Midlothian Tp., Timiskaming Dist.	GR 79		5-21 passim
	Timiskaming Nickel Ltd.			
	Natal Tp. area, Timiskaming and Sudbury Dist.	MP 18		7
		MP 59		111,112
		MP 63		77,78

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
Alcock, P.W.	1987	Quaternary Geology of the Shining Tree Area, Dist. of Sud. and Tim.; in Summary of Field Work and Other Activities by the OGS	OGS MP 137	p. 374-376
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, Dist. of Nip., Ont.	GSC Separate Report 1075 GSC Map 1076	 1:63 360
Collins, W.H.	1909	Montreal River District, Ontario	GSC Sum. Rept. 1908	pp. 115-120
Collins, W.H.	1911	Montreal River District, Ontario	GSC Sum. Rept. 1910	pp. 196-202
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	GSC Memoir 33 GSC Map 64A	1:63 360
Cooke, H.C.	1918	Montreal River District, Northern Ontario	GSC Sum. Rept. 1917, pt. E	pp. 16-18
Cooke, H.C.	1919	Geology of Matachewan District, Northern Ontario	GSC Memoir 115	
	1920	With accompanying map	GSC Map 1793	1:63 360
GSC	1956	Matachewan, Ontario Aeromagnetic Map	GSC Map 287G	1:63 360
GSC	1957	Aeromagnetic Map Sinclair Lake, Ont.	GSC Map 286G	1:63 360
GSC	1981	Magnetic Anomaly Map, Tim.-Kapuskasing Region	GSC Map 1563A	1:1 000 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
GSC	1988	Gravity-Bouguer Anomalies, Sud., Ont. and Quebec	GSC Map NL-17-GR(BA)	1:1 000 000
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sud. and Temiskaming Dist., Ont., Geological Compilation Series	ODM Map 2046	1:253 440
Graham, A.R.	1932	Tyrrell-Knight Area, Tim. and Sud. Dist., Ont.	ODM AR, 1932, vol. 41, pt. 2	pp. 25-61
Graham, A.R.	1932	With accompanying map	ODM Map 41b	1:47 520
Gupta, V.K., Wadge, D.R.	1980	Bouguer Gravity and Generalized Geological Map, Temagami-Englehart Area, NTS 31M/W, 41P/E, Tim. + 2AL Dists., Ont.	OGS Map P.2296	1:100 000
Gupta, V.K.	1981	Bouguer Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41P, Tim. and Sud. Dist., Ont.	OGS Map P.2481	1:100 000
Hornbrook, E.H.W. & Friske, P.W.B.	1988	Regional Lake Sediment and Water Geochemical Reconnaissance Data, Gogama Area, Ont.	GSC OFR 1640	
Hunter & Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31 M/12 and 41 P/E, Tim. + 2 other Dist., Ont.	OGS OFR 5486	3 volumes

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Jolly, W.T.	1978	Metamorphic History of the Archean Abitibi Belt	GSC Paper 78-10	pp. 63-78
Kretschmar, U., Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake-Timmins Area, NTS 31M, 32D, 41O, 41P, 42A, 42B, Tim. + 2AL Dist., Ont.	OGS OFR 5310	
Kretschmar, U., Kretschmar, D.	1986	Talc, Magnesite and Asbestos Deposits in the Timmins-Kirkland Lake Area, Tim. and Cochrane Dist.	OGS Study 28	
Kutina, Jan & Fabbri, Andrea	1971	Relationship of Structural Lineaments and Mineral Occurrences in the Abitibi area of the Canadian Shield	GSC Paper 71-9	36 p.
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt area, NTS 31M/W and 41P, Ont.	OGS OFR 5508	
Long, D.G.F., Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation along the Northern Margin of the Cobalt Embayment, Ontario with Comments on Associated Concentrations of Silver and Copper	OGS OFR 5608	
Mansinha, L., Wilkinson, D.A.	1983	Grant No. 109: Interpretation of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ont.	OGS OFR 5440	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geoph-Geoch Maps 80372-80410	1:250 000
Parks, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	GSC Sum. Rept. 1904, vol. XVI, pt. A	pp. 198-225
Pyke, D.R., Ayres, L.D., Innes, D.G.	1973	Timmins-Kirkland Lake Geological Compilation Series, Cochrane, Sud. and Tim. Dist., Ont.	ODM Map 2205	1:253 440
Redman, J.D., Strangway, D.W.	1986	Ontario Geoscience Research Grant Program, Grant No. 118, Surface Electromagnetic Mapping in Northern Ontario	OGS OFR 5615	
Reid, J.A.	1943	Mineral Resources of the Timiskaming Silver-Cobalt Area, Ontario	ODM Bulletin No. 134	
Roed, M.A., Hallett, D.R.	1980	Gogama Area, NTS 41P/NW, Tim. and Sud. Dist., Ont.	NOEGTS 82	
Roed, M.A., Hallet, D.R.	1980	NOEGTS Data Base Map, Gogama, NTS 41P/NW, Tim. and Sud. Dist., Ont.	OGS Map 5019	1:100 000
Roed, M.A.	1980	Elk Lake Area, NTS 41P/NE, Tim. Dist., Ont.	NOEGTS 83	
Roed, M.A., Hallet, D.R.	1980	NOEGTS Data Base Map, Elk Lake, NTS 41P/NE, Tim. Dist., Ont.	OGS Map 5020	1:100 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
Sinclair, W.D.	1979	Copper-Molybdenum Occurrences of the Matachewan Area, Ontario	GSC Current Research Paper 79-1A	pp. 253-258
Symons, D.T.A., Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman-Type Iron Formations	OGS OFR 5476	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

Note No.	NOTES
	The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data. On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown. No present or past producers. The township was closed to staking in 1978 due to the Bear Island Indian Caution.

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

RESIDENT GEOLOGIST
Box 230
Presley Street
Cobalt, Ontario
POJ 1CO

RAYMOND TOWNSHIP

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ☐ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2.... of text

- ☐ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐ Mineral occurrence encountered in drilling, with reference letter
- ☐

DRILLHOLES: See pages 5-1,2.... of text

- ■ Location of single drillhole, with reference number
- ☐ Location of group of closely spaced drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole; churn drilling, with reference number
- ☐

GEOCHEMICAL: See pages 7-1,2....of text

- ☐ Geochemical sample site, with reference number
- ■ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

Airborne Surveys: See pages 6-1,2.... of text

- ☐ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ AEM — Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ☐ ARA — Airborne radiometric anomaly

Ground Surveys

- ☐ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly (VL - Vertical loop, HL - Horizontal loop VLF - Very low freq., Turam; JEM - Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly
- ☐

GEOCHRONOLOGICAL DATA: See page 8 of text

- ☐ Age dating material sampling site, with reference number
- ☐

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ☐ Sand and/or gravel pit
- ☐ Rock quarry
- ☐ Open pit
- ☐
- ☐

MIDLOTHIAN

1
2
Upper Winding L.
Lloyd Lake
80° 56'
47° 50'
Perth L.
Ember L.
Bayson Lake
Bonner L.
String L.
Otto Lake
Vipond L.
MOND
RANKIN

ND

RANKIN

Cr.

String L.

Ember

Perth

Banner L.

Otto Lake

Vipond L.

81° 04'

47° 46'

Drop L.

Lehman Lake

Duncan

Lake

③

RAYMOND

KNIGHT

Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

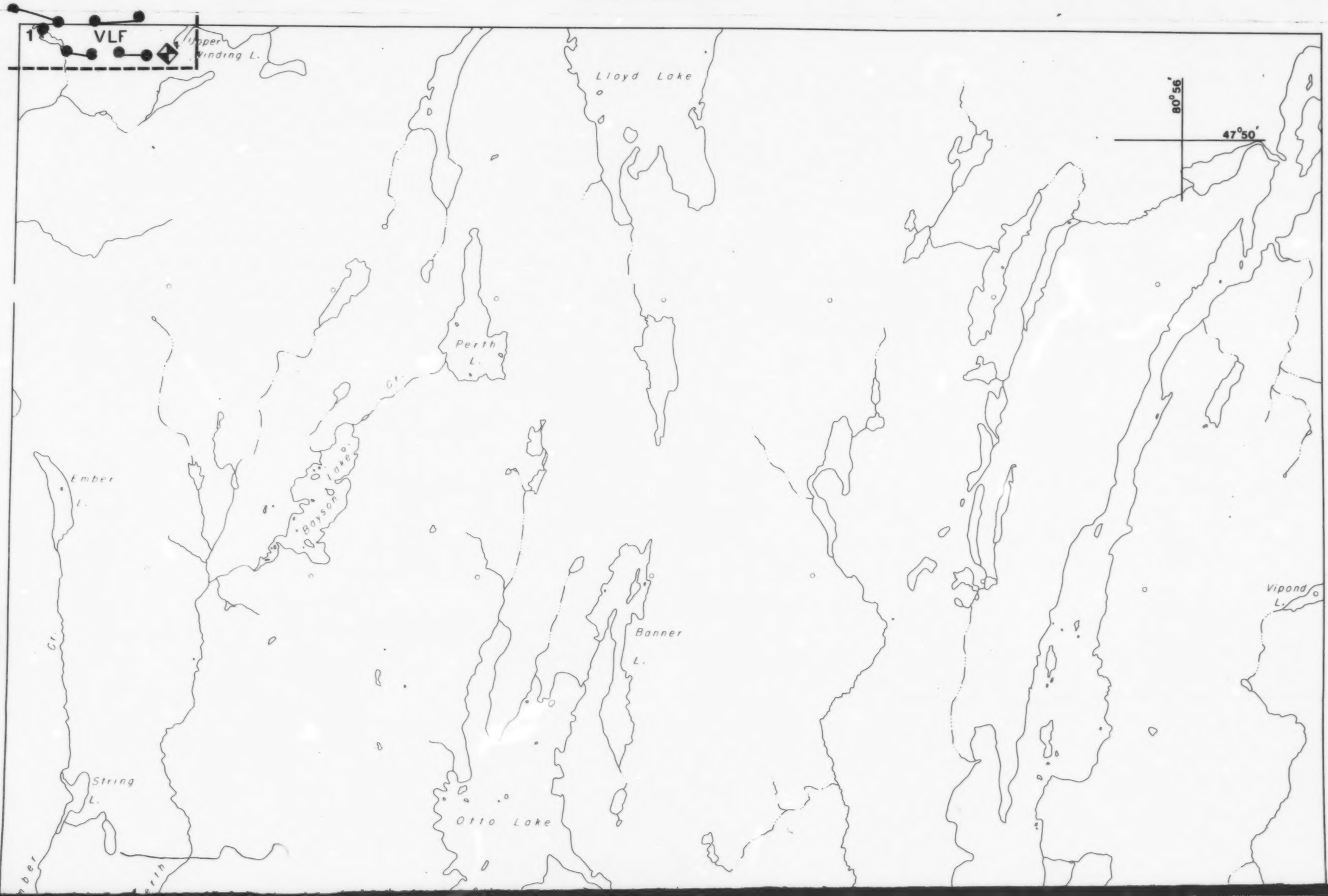
GEOLOGICAL DATA INVENTORY FOLIO 569

RAYMOND TOWNSHIP

A. FILES INDEX MAP (Map **A-1**)

SEE MAP LEGENDS ON BACK COVER OF ACCOMPANYING TEXT

MIDLOTHIAN


1
VLF
Upper Winding L.
Lloyd Lake
80°56'
47°50'
Perth L.
Ember L.
Boyson Lake
Banner L.
String L.
Otto Lake
Vipond L.
MOND
RANKIN

MOND

RANKIN

Vipond L.

Banner L.

Otto Lake

String L.

Ember

Perry

81°04'

47°46'

Drab L.

Lenman Lake

Duncan Lake

RAYMOND

KNIGHT

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL DATA INVENTORY FOLIO 569

RAYMOND TOWNSHIP

B. EXPLORATION DATA MAP (Map B-1)

SEE MAP LEGENDS ON BACK COVER OF ACCOMPANYING TEXT